1915 **FILTERS (ELECTROMAGNETIC)** **G Campbell & K W Wagner (UK)**

In 1831 Michael Faraday formulated the law of electromagnetic induction and self-induction. Some 84 years later, in 1915, G Campbell and K W Wagner utilized Faraday's law in their invention of the first electromagnetic or LC wave filter. Significant advances in filter theory and technology then followed rapidly, until today, filters have so permeated electronic technology that it is hard to conceive of a modern world without them. Consumer, industrial, and military electronic systems all require some kind of signal filter, and, in the past, LC filter networks provided one of the most efficient and economical methods of implementing them.

SOURCE: 'Inductorless filters: a survey' by G S Moschytz *IEEE Spectrum* p 30 (August 1970)

SEE ALSO: 'The golden anniversary of electric wave filters' by A I Zverev *IEEE Spectrum* vol 3, pp 129–31 (March 1966)

'Introduction to filters' by A I Zverev *Electro-Technol (New York)* pp 63-90 (June 1964)